

SWBAT: relate and give examples of voltage

Jan 4-7:20 AM

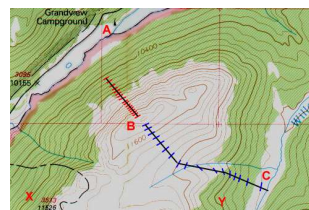
Welcome!!!

H. Leslie Grebe

SECA Physics
Tuesday 10 February 2015

- * Pick up:
 - slip of paper (for later)

Opening Question:



If I'm going to drop something on your head...

what are the main factors that might determine how much it will hurt?

HEIGHT
WEIGHT

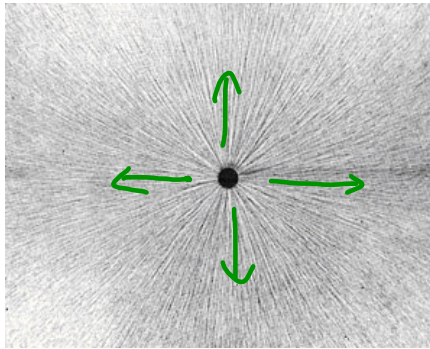
SHAPE
SOFTNESS
Centering

Sep 7-7:04 AM

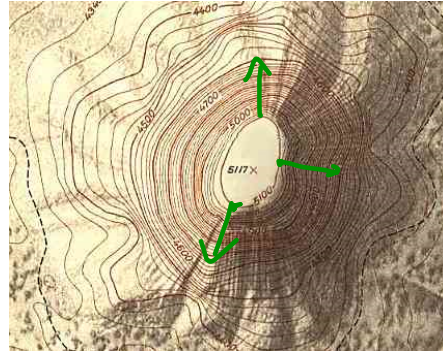
Big Idea of Friday:

Electric charges are surrounded
by electric fields

ELECTRIC
POTENTIAL



GRAVITATIONAL
POTENTIAL



TOPOGRAPHY

VOLTAGE ← HEIGHT
POSITIVE TO NEGATIVE DOWNHILL

Feb 2-7:44 AM

Today we need some stuff from other physics...

Holding weight: EQUILIBRIUM FORCE
AGAINST GRAVITY

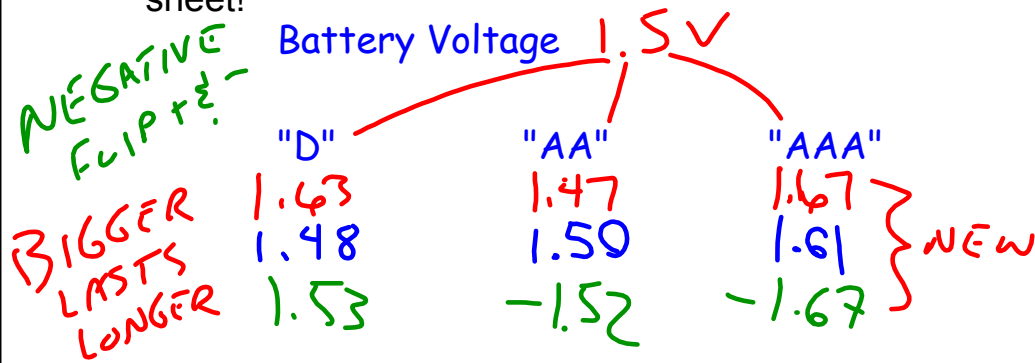
LIFTING weight: WORK AGAINST
GRAVITY

Energy is the ability to do work, measured in Joules...

Feb 18-6:50 AM

Worksheet:

- * Fill in the blank or circle best choice
- * When you are done: look at second column and think about gravity and how it might be related
- * Some of "daily 3 questions" will be directly from this sheet!



Feb 18-6:54 AM

How many volts???

Van de Graff generator:

100,000 V



Balloon rubbed against your hair:

5000 V

Wall outlet (that we put plugs in):

120 V

ELEC GRAV
Voltage => height
Charge => mass/
WEIGHT

Huh???

Feb 22-7:50 AM

Voltage:

is the **potential** based on **position** in an electric field.

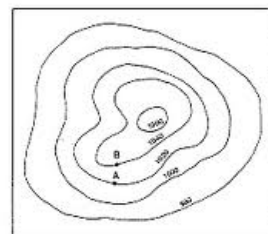
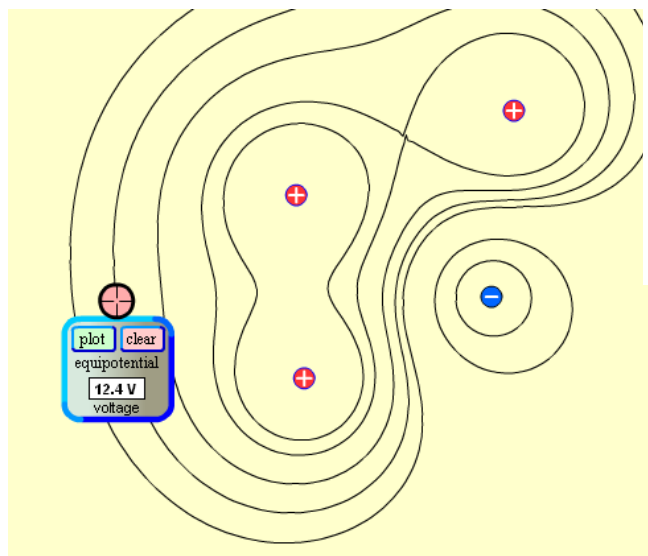


Figure E-1: Isolated Hill

Feb 18-6:47 AM

Daily 3 Questions

- * Every day except test/project days
- * 3 Questions on the topics of the day
- * Main source of daily points
- * I am happy to give credit when I have no concerns about someone giving or getting help with the answers.

CP Hmwk: Similarity & difference for electric and gravitational fields

You can't get your points if you don't have your NAME!!!

Name	Period
1.	
2.	
3.	

Sep 9-7:32 AM

1. To bring the small balloon closer to the big balloon, I have to overcome the repeling force.

2. Voltage is the potential based on position in an electric field.

3. Which has a higher voltage: A balloon rubbed against someone's hair or the wall outlet?

Feb 18-6:59 AM